



## "Household Responses for Pricing Garbage by the Bag, "

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National Bureau of Economic Research,  
1994

Monografía

This paper estimates household reaction to the implementation of unit-pricing for the collection of residential garbage. We gather original data on weight and volume of weekly garbage and recycling of 75 households in Charlottesville, Virginia, both before and after the start of a program that requires an eighty-cent sticker on each bag of garbage. This data set is the first of its kind. We estimate household demands for the collection of garbage and recyclable material, the effect on density of household garbage, and the amount of illegal dumping by households. We also estimate the probability that a household chooses each method available to reduce its garbage. In response to the implementation of this unit-pricing program, we find that households (1) reduced the weight of their garbage by 14%, (2) reduced the volume of garbage by 37% and (3) increased the weight of their recyclable materials by 16%. We estimate that additional illegal -- or at least suspicious -- disposal accounts for 0.42 pounds per person per week, or 28% of the reduction in garbage observed at the curb

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**Título:** "Household Responses for Pricing Garbage by the Bag, " Don Fullerton, Thomas C. Kinnaman

**Editorial:** Cambridge, Mass. National Bureau of Economic Research 1994

**Descripción física:** 1 online resource

**Tipo Audiovisual:** Microeconomics Externalities Public Economics Externalities

**Mención de serie:** NBER working paper series no. w4670

**Copyright/Depósito Legal:** 72459067 1027339043 1119410299 1243074957

**Materia:** Externalities Externalities Redistributive Effects Environmental Taxes and Subsidies

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**Entidades:** National Bureau of Economic Research

**Punto acceso adicional serie-Título:** Working paper series (National Bureau of Economic Research) no. w4670

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